To: Jolish, Taly[jolish.taly@epa.gov]; Lane, Jackie[Lane.Jackie@epa.gov]
From: thompson, rachelle
Sent: Thur 5/30/2013 12:05:41 AM
Subject: FW: Superfund field work
Draft_tier2samplinglocations.pdf
Proposedmussel&waterlocations_2013.pdf
PE_SedimentSampling_R1.pdf

Hi Taly and Jackie,

For your reference, here is a summary of the summer 2013 field work at United Heckathorn that will require detailed access coordination. LRTC plans to dredge Berth A (in the Santa Fe channel) in early June and will be using Berth B to offload the dredged sediments, and also expects several large ships to arrive in June which could potentially impact our field work schedule.

Let me know if you have any questions.

Rachelle Thompson, MS, PE

Environmental Engineer, Superfund Division

US Environmental Protection Agency Region 9

75 Hawthorne Street, SFD-7-3

San Francisco, CA 94105

(415) 972-3962

thompson.rachelle@epa.gov

From: thompson, rachelle
Sent: Wednesday, May 29, 2013 4:41 PM
To: Jim Holland; Jim Cannon; 'garyl@levinterminal.com'
Cc: 'Brenda.McConathy@ch2m.com'
Subject: Superfund field work

Hello,

As we briefly discussed earlier today, here is a summary of the field work EPA has planned for June and July that will require coordinating access in the Lauritzen Channel. I also attached draft figures with the tentative sampling locations for your reference.

Tier 2 Sediment Study (3 parts):

1. Sediment Erosion Testing

•□□□□□□ Collect 10 sediment cores.

•□□□□□□ Perform Sedflume laboratory analysis for erosion rate as a function of depth, shear stress, mean particle size, particle size distribution, and bulk density.

2. Hydrodynamic Data Collection

•□□□□□□ Deploy two bottom-mounted platforms with acoustic Doppler current profilers (ADCP) and water quality meters with measurement probes for temperature, salinity, and optical turbidity for continuous measurements of current velocity and water quality parameters over a period of 1 month.

•□□□□□□ Collect physical measurements of total suspended solids (TSS) concentration for calibration with optical turbidity.

•□□□□□□ Conduct current measurements with a vessel-mounted ADCP during platform deployment and retrieval periods to characterize currents across the channel.

3. Sediment Tracer Study

•□□□□□□ Place tracer particles on the bottom sediment.

•□□□□□□ Periodically sample field-deployed magnets to assess movement of the tracers.

Placement of the platforms is currently scheduled for the week of 6/3, and placement of the tracer particles is scheduled for the week of 6/10.

Mussel, water and sediment sampling

EPA contractors will deploy mussels, water-column passive samplers, and sediment passive samplers, and then collect them approximately one month from deployment. This work involves divers, and is therefore more sensitive than the other field efforts for safety reasons. Currently the best week for the divers is the week of 6/24, and approximately 2 days would be required.

I expect a more detailed field schedule by the end of the week, and so as soon as I have more information I will send it to you.

Please contact me if you have any questions in the meantime, and thank you as always for your cooperation.

Sincerely,

Rachelle Thompson, MS, PE

Environmental Engineer, Superfund Division

US Environmental Protection Agency Region 9

75 Hawthorne Street, SFD-7-3

San Francisco, CA 94105

(415) 972-3962

thompson.rachelle@epa.gov